

Form PTO-1390US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE
(Rev. 5-93)TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NO. H3888 PCT/US

U.S. APPLICATION NO. (if known sec 17 CFR 1.5)

09/914303

INTERNATIONAL APPLICATION NO.
PCT/EP00/01312INTERNATIONAL FILING DATE
February 18, 2000PRIORITY DATE CLAIMED
February 27, 1999

TITLE OF INVENTION

CLEANING AGENTS FOR HARD SURFACES

APPLICANT(S) FOR DO/EO/US

Beatrice Mayoud and Daniel Dufay

Applicant herewith submits to the United States Designated/Elected Office (EO/DO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
 2. ☐ This a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
 3. ☐ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39 (1).
 4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
 5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
 6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
 7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
 8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
 9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (UNEXECUTED)
 10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
- Items 11. to 16. below concern other document(s) or information included:**
11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
 12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
 13. ☒ A FIRST preliminary amendment
 ☐ A SECOND or SUBSEQUENT preliminary amendment.
 14. ☐ A substitute specification.
 15. ☐ A change of power of attorney and/or address letter.
 16. ☐ Other items or information.:

"Express Mail" mailing label number EL541614165US

Form PTO 1390 (REV 5-93)

09/914303

JC03 Rec'd PCT/PTO

27 AUG 2001

"Express Mail" mailing label number EL541614165US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mayoud et al.
I.A. Number : PCT/EP00/01312
I.A. Filing Date: February 18, 2000
Priority Date : February 27, 1999
Title : CLEANING AGENTS FOR HARD SURFACES

Grp./A.U. : Unknown
Examiner : Unknown

Docket No. : H 3888 PCT/US

Assistant Commissioner for Patents
Box PCT
Washington, DC 20231

ATTN: DO/EO/US

PRELIMINARY AMENDMENT

Sir:

Preliminary to examination, please amend the instant application as follows.

In the Specification:

At page 1, line 1, delete "Field of the Invention", and replace with --Background of the Invention--.

At page 1, line 7, delete "Prior Art".

Enter a new page 11, submitted herewith, containing the Abstract of the Disclosure.

In the Claims:

Cancel claims 1-10, without prejudice.

Please enter the following new claims.

11. (new) A hard surface cleaning composition comprising:
- (a) an alkyl and/or alkenyl sulfate;
 - (b) an alcohol polyethylene glycol ether;
 - (c) an alkyl and/or alkenyl polyglycoside; and

**Preliminary Amendment of U.S. National Stage for International Application
PCT/EP00/01312 filed February 18, 2000**

(d) an electrolyte salt.

12. (new) The composition of claim 11 wherein the alkyl and/or alkenyl sulfate is present in the composition in an amount of from about 1 to 10% by weight, based on the weight of the composition.

13. (new) The composition of claim 11 wherein the alkyl and/or alkenyl sulfate is present in the composition in an amount of from about 2 to 6% by weight, based on the weight of the composition.

14. (new) The composition of claim 11 wherein the alcohol polyethylene glycol ether is present in the composition in an amount of from about 1 to 10% by weight, based on the weight of the composition.

15. (new) The composition of claim 11 wherein the alcohol polyethylene glycol ether is present in the composition in an amount of from about 3 to 8% by weight, based on the weight of the composition.

16. (new) The composition of claim 11 wherein the alkyl and/or or alkenyl polyglycoside is present in the composition in an amount of from about 1 to 10% by weight, based on the weight of the composition.

17. (new) The composition of claim 11 wherein the alkyl and/or or alkenyl polyglycoside is present in the composition in an amount of from about 2 to 4% by weight, based on the weight of the composition.

18. (new) The composition of claim 11 wherein the electrolyte salts are present in the composition in an amount of from about 80 to 90% by weight, based on the weight of the composition.

19. (new) The composition of claim 11 wherein the electrolyte salts are present in the composition in an amount of from about 85 to 88% by weight, based on the weight of the composition.

20. (new) The composition of claim 11 wherein the composition contains less than about 5% by weight, based on the weight of the composition, of water.

21. (new) A process for cleaning a hard surface comprising contacting the surface

**Preliminary Amendment of U.S. National Stage for International Application
PCT/EP00/01312 filed February 18, 2000**

with a composition containing:

- (a) an alkyl and/or alkenyl sulfate;
- (b) an alcohol polyethylene glycol ether;
- (c) an alkyl and/or alkenyl polyglycoside; and
- (d) an electrolyte salt.

22. (new) The process of claim 21 wherein the alkyl and/or alkenyl sulfate is present in the composition in an amount of from about 1 to 10% by weight, based on the weight of the composition.

23. (new) The process of claim 21 wherein the alkyl and/or alkenyl sulfate is present in the composition in an amount of from about 2 to 6% by weight, based on the weight of the composition.

24. (new) The process of claim 21 wherein the alcohol polyethylene glycol ether is present in the composition in an amount of from about 1 to 10% by weight, based on the weight of the composition.

25. (new) The process of claim 21 wherein the alcohol polyethylene glycol ether is present in the composition in an amount of from about 3 to 8% by weight, based on the weight of the composition.

26. (new) The process of claim 21 wherein the alkyl and/or or alkenyl polyglycoside is present in the composition in an amount of from about 1 to 10% by weight, based on the weight of the composition.

27. (new) The process of claim 21 wherein the alkyl and/or or alkenyl polyglycoside is present in the composition in an amount of from about 2 to 4% by weight, based on the weight of the composition.

28. (new) The process of claim 21 wherein the electrolyte salts are present in the composition in an amount of from about 80 to 90% by weight, based on the weight of the composition.

29. (new) The process of claim 21 wherein the electrolyte salts are present in the composition in an amount of from about 85 to 88% by weight, based on the weight of

[illegible]

30. (new) The process of claim 21 wherein the composition contains less than about 5% by weight, based on the weight of the composition, of water.

REMARKS/ARGUMENTS

Claims 11-30 are currently pending in the instant application.


The Specification has been amended to include the preferred section headings pursuant to 37 C.F.R. §1.77. An Abstract of the Disclosure in accordance with the abstract of the corresponding international publication has been added on a separate sheet following the claims. All of the amendments to the Specification constitute deletions of original section headings and/or paragraphs, and insertions or additions of new section headings and/or paragraphs. It is submitted that the amendments to the Specification made herein introduce no new matter. Their entry is therefore proper and respectfully requested. Accordingly, pursuant to 37 C.F.R. §1.121(b)(1)(iii), no separate page captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE" is necessary.

Original claims 1-10 have been canceled and replaced with new claims 11-30 solely for the purpose of improving clarity and grammar, which may suffer in translation, and not for any reason which relates to the statutory requirements for a patent. New claims 11-30 have not been added in response to any rejection, nor in anticipation of any rejection. Applicant(s) respectfully submit(s) that the scope of new claims 11-30 corresponds to the scope of original claims 1-10, and that new claims 11-30 are no narrower than original claims 1-10. Furthermore, although a moot point in view of their cancellation, Applicant(s) respectfully submit(s) that original claims 1-10 satisfied the requirements of 35 U.S.C. §112, as filed. New claims 11-30 are supported by the claims as originally filed and by the Examples. No new matter has been introduced. Entry is therefore believed by Applicant to be proper and respectfully requested.

**Preliminary Amendment of U.S. National Stage for International Application
PCT/EP00/01312 filed February 18, 2000**

Prompt examination of the instant application in view of the amendments
made herein is respectfully requested.

Respectfully submitted,



Steven J. Trzaska
(Reg. No. 36,296)
Attorney for Applicants
(610) 278-4929

Cognis Corporation
Law Department
2500 Renaissance Boulevard, Suite 200
Gulph Mills, PA 19406
G:\Data\H3888pam.doc

Attached:

1. Added Page 11

Abstract of the Disclosure

A hard surface cleaning composition containing: (a) an alkyl and/or alkenyl sulfate; (b) an alcohol polyethylene glycol ether; (c) an alkyl and/or alkenyl polyglycoside; and (d) an electrolyte salt.

Cleaning Agents for Hard Surfaces

Field of the Invention

This invention relates to cleaning compositions for hard surfaces containing a ternary surfactant mixture and electrolyte salts and to the use of these mixtures for the cleaning and antistatic finishing of painted metal surfaces, more particularly car bodies and bodywork parts.

Prior Art

In an era of heightened ecological awareness, the hand washing of motor vehicles is losing significance, even to the private car owner, because the introduction of oil-contaminated wastewater into the main drains causes serious environmental pollution. This has resulted in an increase in washing at special facilities which are equipped either with closed systems for collecting the washing water or with special oil separators. Besides so-called "wash lines" where the vehicles are successively transported through a sequence of washing, brushing and drying stations, for example on a chain conveyor, there has been a particular boom in self-service car washes where customers can clean their vehicles with a high-pressure water jet to which a water-based detergent preparation can be added if required. However, it has been found in this connection that painted metal surfaces, particularly those containing white or red pigments, have a tendency to attract dust through electrostatic charging and that this dust cannot be removed by water power alone.

Reference is made in this connection to German patent application **DE 19719696 A1** (Henkel) which describes solid preparations for cleaning car bodies that contain mixtures of alkyl sulfates, alcohol ethoxylates and alkyl phosphates together with electrolyte salts. However, the cleaning performance of these known preparations is not entirely satisfactory.

Accordingly, the problem addressed by the present invention was to provide solid compositions for cleaning hard surfaces which would dissolve easily, even in cold water, would have excellent cleaning performance, preferably for oil-based soil, and at the same time would provide painted metal surfaces, more particularly car bodies and bodywork parts, with an antistatic finish that would make resoiling difficult.

Description of the Invention

- The present invention relates to solid preparations containing
- 10 (a) alkyl and/or alkenyl sulfates,
 - (b) alcohol polyethylene glycol ethers,
 - (c) alkyl and/or alkenyl oligoglycosides and
 - (d) electrolyte salts.

It has surprisingly been found that the preparations according to the invention dissolve spontaneously and completely in water, even at low temperatures, and form a cleaning composition with which, for example, motor vehicles and other painted metal surfaces can be quickly and effectively freed from grease and oil residues and other soils. At the same time, the compositions provide the parts thus treated with an antistatic finish which makes resoiling very difficult. The invention includes the observation that the high cleaning performance is very largely attributable to a synergistic effect between the glycosides and the electrolyte salts, more particularly the inorganic phosphates.

25 **Alkyl and/or alkenyl sulfates**

Alkyl and/or alkenyl sulfates, which are often referred to as fatty alcohol sulfates and which form surfactant component (a), are the sulfation products of primary alcohols which correspond to formula (I):



(I)

in which R¹ is a linear or branched aliphatic alkyl and/or alkenyl group containing 6 to 22 carbon atoms, preferably 12 to 18 carbon atoms and X is an alkali metal and/or alkaline earth metal, ammonium, alkylammonium, alkanolammonium or glucammonium. Typical examples of alkyl sulfates which may be used for the purposes of the invention are the sulfation products of caproic alcohol, caprylic alcohol, capric alcohol, 2-ethylhexyl alcohol, lauryl alcohol, myristyl alcohol, cetyl alcohol, palmitoleyl alcohol, stearyl alcohol, isostearyl alcohol, oleyl alcohol, elaidyl alcohol, petroselinyl alcohol, arachyl alcohol, gadoleyl alcohol, behenyl alcohol and erucyl alcohol and the technical mixtures thereof obtained by high-pressure hydrogenation of technical methyl ester fractions or aldehydes from Roelen's oxo synthesis. The sulfation products may advantageously be used in the form of their alkali metal salts, more particularly their sodium salts. Alkyl sulfate powders or needles based on C_{16/18} tallow fatty alcohols or vegetable fatty alcohols of comparable C-chain distribution in the form of their sodium salts are particularly preferred.

Alcohol polyethylene glycol ethers

Alcohol polyethylene glycol ethers which form component (b) are nonionic surfactants which are industrially obtained by addition of ethylene oxide onto primary, linear or branched alcohols. Alcohol polyethylene glycol ethers particularly suitable for the purposes of the invention correspond to formula (II):



in which R² is a linear or branched alkyl and/or alkenyl group containing 6 to 22 carbon atoms and n is a number of 1 to 50. Typical examples are products of the addition of on average 1 to 50 and more particularly 20 to 30 moles of ethylene oxide onto caproic alcohol, caprylic alcohol, 2-ethyl

hexyl alcohol, capric alcohol, lauryl alcohol, isotridecyl alcohol, myristyl alcohol, cetyl alcohol, palmitoleyl alcohol, stearyl alcohol, isostearyl alcohol, oleyl alcohol, elaidyl alcohol, petroselinyl alcohol, arachyl alcohol, gadoleyl alcohol, behenyl alcohol, erucyl alcohol and brassidyl alcohol and technical mixtures thereof. The alcohol polyglycol ethers may have both a conventional and a narrow homolog distribution. It is particularly preferred to use addition products of on average 20 to 30 moles ethylene oxide onto technical C_{12/14} or C_{12/18} coconut fatty alcohol fractions or tallow fatty alcohol.

Alkyl and/or alkenyl oligoglycosides

Alkyl and alkenyl oligoglycosides form surfactant component (c) and are known nonionic surfactants which correspond to formula (III):



where R³ is an alkyl and/or alkenyl group containing 4 to 22 carbon atoms, G is a sugar unit containing 5 or 6 carbon atoms and p is a number of 1 to 10. They may be obtained by the relevant methods of preparative organic chemistry. **EP-A1 0 301 298** and **WO 90/03977** are cited as representative of the extensive literature available on the subject. The alkyl and/or alkenyl oligoglycosides may be derived from aldoses or ketoses containing 5 or 6 carbon atoms, preferably glucose. Accordingly, the preferred alkyl and/or alkenyl oligoglycosides are alkyl and/or alkenyl oligoglucosides.

The index p in general formula (III) indicates the degree of oligomerization (DP), i.e. the distribution of mono- and oligoglycosides, and is a number of 1 to 10. Whereas p in a given compound must always be an integer and, above all, may assume a value of 1 to 6, the value p for a certain alkyl oligoglycoside is an analytically determined calculated quantity which is generally a broken number. Alkyl and/or alkenyl oligoglycosides having an average degree of oligomerization p of 1.1 to 3.0 are preferably used. Alkyl

and/or alkenyl oligoglycosides having a degree of oligomerization of less than 1.7 and, more particularly, between 1.2 and 1.4 are preferred from the applicational point of view. The alkyl or alkenyl group R^3 may be derived from primary alcohols containing 4 to 11 and preferably 8 to 10 carbon atoms. Typical examples are butanol, caproic alcohol, caprylic alcohol, capric alcohol and undecyl alcohol and the technical mixtures thereof obtained, for example, in the hydrogenation of technical fatty acid methyl esters or in the hydrogenation of aldehydes from Roelen's oxosynthesis. Alkyl oligoglucosides having a chain length of C_8 to C_{10} (DP = 1 to 3), which are obtained as first runnings in the separation of technical C_{8-18} coconut oil fatty alcohol by distillation and which may contain less than 6% by weight of C_{12} alcohol as an impurity, and also alkyl oligoglucosides based on technical $C_{9/11}$ oxoalcohols (DP = 1 to 3) are preferred. In addition, the alkyl or alkenyl group R^3 may also be derived from primary alcohols containing 12 to 22 and preferably 12 to 14 carbon atoms. Typical examples are lauryl alcohol, myristyl alcohol, cetyl alcohol, palmitoleyl alcohol, stearyl alcohol, isostearyl alcohol, oleyl alcohol, elaidyl alcohol, petroselinyl alcohol, arachyl alcohol, gadoleyl alcohol, behenyl alcohol, erucyl alcohol, brassidyl alcohol and technical mixtures thereof which may be obtained as described above. Alkyl oligoglucosides based on hydrogenated $C_{12/14}$ cocoalcohol with a DP of 1 to 3 are preferred.

Electrolyte salts

Suitable electrolyte salts, which represent the principal constituents of the compositions according to the invention, are for example alkali metal and/or alkaline earth metal phosphates, hydrogen phosphates, carbonates, hydrogen carbonates, sulfates, silicates, acetates, citrates and the like. Typical examples are sodium tripolyphosphate, potassium tripolyphosphate, sodium hydrogen phosphate, potassium hydrogen phosphate, sodium carbonate, potassium carbonate, calcium carbonate, sodium

hydrogen carbonate, potassium hydrogen carbonate, sodium sulfate, potassium sulfate, magnesium sulfate, calcium sulfate, sodium metasilicate, potassium metasilicate, sodium acetate, potassium acetate, magnesium carbonate, calcium acetate, sodium citrate and/or potassium citrate. Other suitable electrolyte salts are aluminosilicates, such as the zeolites known as detergent builders.

Organic builders

In one preferred embodiment of the invention, the compositions contain organic builders, for example ethylenediamine tetraacetate (EDTA), nitrilotriacetate (NTA), citric acid and the like, in order further to improve their drainage behavior on the hard surfaces. In addition, it has proved to be of advantage to use sulfonated styrene/maleic anhydride copolymers, for example of the type marketed under the name of Versa® TL-3 by National Starch & Chemical Ltd., particularly for solid compositions. The anionic polymers are generally used in quantities of 1 to 25% by weight and preferably in quantities of 2 to 10% by weight, based on the composition.

Cleaning compositions

Substantially water-free compositions containing - based on their solids content -

- (a) 1 to 10, preferably 2 to 6% by weight of alkyl and/or alkenyl sulfates,
 - (b) 1 to 10, preferably 3 to 8% by weight of alcohol polyethylene glycol ethers,
 - (c) 1 to 10, preferably 2 to 4% by weight of alkyl and/or alkenyl polyglycosides,
 - (d) 80 to 90, preferably 85 to 88% by weight of electrolyte salts and
 - (e) 0 to 25, preferably 1 to 10% by weight of builders
- with the proviso that the quantities shown add up to 100% by weight, have

proved to be optimal for solving the problem addressed by the present invention. The compositions have a water content of less than 5% by weight, preferably less than 2% by weight, and a pH value in the range from 9 to 12. The compositions can be produced by known methods, i.e. in the simplest form, powder mixtures with bulk densities of 650 to 750 g/l are produced in a mixer, for example a Schugi mixer. Basically, it is of course also possible to use the known industrial processes for the production of washing powders, i.e. for example the drying of water-containing slurries with hot gases (spray drying) or superheated steam (steam drying) in countercurrent, fluidized bed agglomeration (SKET granulation), simultaneous drying and granulation in a horizontal thin-layer evaporator (flash drying) and the like. Besides the ingredients mentioned above, the compositions may contain other surfactants, for example sulfosuccinates, sulfosuccinamates, sorbitan esters, polysorbates, amine ethoxylates, quaternized amine ethoxylates, esterquats or betaines, and also saturated or unsaturated fatty acids, silicone oils and Guerbet alcohols.

Commercial Applications

The compositions according to the invention dissolve readily in water, including cold water, remove soil, including obstinate soil, from painted metal surfaces and provide those surfaces with an antistatic finish against re-soiling. Accordingly, they may of course also be marketed in the form of aqueous concentrates with a solids content of 15 to 50% by weight or even in the form of a diluted 5 to 15% by weight liquid. The present invention also relates to their use for the simultaneous cleaning and antistatic finishing of painted metal surfaces, especially car bodies and bodywork parts.

Examples

In order to evaluate their performance properties, compositions 1 to 3 according to the invention and comparison mixtures C1 to C3 were tested for their cleaning performance, their antistatic effect and their drainage behavior. Cleaning performance was tested by coating a red-painted metal plate (10 x 10 cm) with 5 g of lubricating oil and then treating it for 20 seconds with a 5% by weight aqueous solution of the test substances in the form of a concentrated water jet ("Kärcher"). The residue was then incinerated, weighed out and placed in a ratio to the amount of oil originally applied, i.e. the lower the value, the higher the performance. The antistatic finish was evaluated by the conductivity method using red-painted metal plates. The higher the resistance value observed, the better the antistatic charging and the lower the tendency to attract dust. Drainage behavior was subjectively determined - "+++" stands for very rapid drainage, "-" for slow drainage. The results are set out in Table 1 below.

Table 1**Solid preparations and performance properties**

Composition /performance	1	2	3	C1	C2	C3
C _{12/16} alkyl sulfate Na salt	5.0	5.0	4.0	0	5.0	0
C _{16/18} tallow fatty alcohol+25 EO	3.0	3.0	4.0	0	0	5.0
C _{12/14} cocoalkyl oligoglucoside	1.0	2.0	2.0	5.0	0	0
Sodium tripolyphosphate	50.0	50.0	50.0	50.0	50.0	50.0
Sodium metasilicate	15.0	15.0	15.0	15.0	15.0	15.0
Sodium carbonate	26.0	24.0	24.0	30.0	30.0	30.0
Versa TL-3*	-	2.0	2.0	-	-	-
Cleaning performance [%]	10	10	10	44	35	37
Conductivity [mS]	7.9	8.5	8.5	2.3	0.3	0.2
Drainage behavior	++	+++	+++	-	-	-

*) Sulfonated styrene/MA copolymer, sodium salt

CLAIMS

1. Compositions for cleaning hard surfaces containing

(a) alkyl and/or alkenyl sulfates,

(b) alcohol polyethylene glycol ethers,

5 (c) alkyl and/or alkenyl oligoglycosides and

(d) electrolyte salts.

2. Compositions as claimed in claim 1, characterized in that they contain as component (a) alkyl and/or alkenyl sulfates corresponding to formula (I):

10



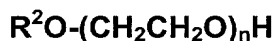
(I)

15

where R^1 is a linear or branched aliphatic alkyl and/or alkenyl group containing 6 to 22 and preferably 12 to 18 carbon atoms and X is an alkali metal and/or alkaline earth metal, ammonium, alkylammonium, alkanol-ammonium or glucammonium.

3. Compositions as claimed in claim 1 and/or 2, characterized in that they contain as component (b) alcohol polyethylene glycol ethers corresponding to formula (II):

20



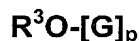
(II)

where R^2 is a linear or branched alkyl and/or alkenyl group containing 6 to 22 carbon atoms and n is a number of 1 to 50.

25

4. Compositions as claimed in at least one of claims 1 to 3, characterized in that they contain as component (c) alkyl and alkenyl oligoglycosides corresponding to formula (III):

30



(III)

in which R^3 is an alkyl and/or alkenyl group containing 4 to 22 carbon

atoms, G is a sugar unit containing 5 or 6 carbon atoms and p is a number of 1 to 10.

5. Compositions as claimed in at least one of claims 1 to 4, characterized in that they contain alkali and/or alkaline earth metal phosphates, hydrogen phosphates, carbonates, hydrogen carbonates, sulfates, silicates, acetates and/or citrates as component (d).

6. Compositions as claimed in at least one of claims 1 to 5, characterized in that they additionally contain organic builders.

7. Compositions as claimed in at least one of claims 1 to 6, characterized in that they contain, based on the solids content,

- (a) 1 to 10% by weight of alkyl and/or alkenyl sulfates,
- (b) 1 to 10% by weight of alcohol polyethylene glycol ethers,
- (c) 1 to 10% by weight of alkyl and/or alkenyl oligoglycosides,
- (d) 80 to 90% by weight of electrolyte salts and
- (e) 0 to 25% by weight of builders

with the proviso that the quantities shown add up to 100% weight.

8. Compositions as claimed in at least one of claims 1 to 7, characterized in that they have a water content of less than 5% by weight.

9. Compositions as claimed in at least one of claims 1 to 7, characterized in that they have a water content of 5 to 50% by weight.

10. The use of the compositions claimed in claim 1 for the simultaneous cleaning and antistatic finishing of painted metal surfaces.

Type a plus sign (+) inside this box → ☐

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

0010/PTO Rev. 6/95		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number		H 3888 PCT/US	
<h2 style="margin: 0;">DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</h2>				First Named Inventor		Mayoud, Beatrice	
				COMPLETE IF KNOWN			
				Application Number		09/914,303	
				Filing Date		10/29/01	
				Group Art Unit		 	
				Examiner Name		 	
As a below named inventor, I hereby declare that: My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> CLEANING AGENTS FOR HARD SURFACES </div>							
(Title of the Invention)							
the specification of which							
<input type="checkbox"/> is attached hereto							
OR							
<input checked="" type="checkbox"/> was filed on (MM/DD/YYYY) <div style="border: 1px solid black; padding: 2px 20px;">02/18/2000</div> as United States Application Number or PCT International							
Application Number <div style="border: 1px solid black; padding: 2px 20px;">PCT/EP00/01312</div> and was amended on (MM/DD/YYYY) <div style="border: 1px solid black; padding: 2px 20px;"></div> (if applicable).							
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.							
I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.							
I hereby claim foreign priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed.							
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?			
199 08 563.3	Germany	02/27/1999	<input type="checkbox"/>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
			<input type="checkbox"/>				
			<input type="checkbox"/>				
			<input type="checkbox"/>				
			<input type="checkbox"/>				
			<input type="checkbox"/>				
<input type="checkbox"/> Additional foreign application numbers are listed on a supplemental priority sheet attached hereto.							
I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.							
Application Number(s)	Filing Date (MM/DD/YYYY)	Additional provisional application numbers are listed on a supplemental priority sheet attached hereto.					

Burden Hour Statement: This form is estimated to take 4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington DC 20231.

Type a plus sign (+) inside this box → ☐

H 3888 PCT/US

DECLARATION

Page 2

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365© of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code §112.1 acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
	PCT/EP00/01312	02/18/2000	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

<input type="checkbox"/> Firm Name		Customer Number	or label	
OR				

☒ List Attorney(s) and/or agent(s) name and registration number below:

Name	Registration Number	Name	Registration Number
John E. Drach	32,891	Steven J. Trzaska	36,296
Aaron E. Ettelman	42,516	Henry E. Millson, Jr.	18,980

☐ Additional attorney(s) and/or agent(s) named on a supplemental sheet attached hereto

Please direct all correspondence to: ☒ Customer Number or label **23657** OR ☐ Fill in correspondence address below

Name	Steven J. Trzaska				
Address					
Address					
City		State		Zip	
Country	Telephone	610-278-4929	Fax	610-278-6548	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name	Beatrice	Middle Initial		Family Name	MAYOUD	Suffix e.g. Jr.	
------------	----------	----------------	--	-------------	--------	-----------------	--

Inventor's Signature	31/07/01 <i>[Signature]</i>	Date	21/08/01
----------------------	-----------------------------	------	----------

Residence: City	Perthes en Gatinais	State		Country	France	Citizenship	French FOX
-----------------	---------------------	-------	--	---------	--------	-------------	-------------------

Post Office Address 19, Chemin de la Fontaine Monceau

Post Office Address

City	77930 Perthes en Gatinais	State		Zip		Country	France	Applicant Authority	
------	---------------------------	-------	--	-----	--	---------	--------	---------------------	--

☒ Additional inventors are being named on supplemental sheet(s) attached hereto

Type a plus sign (+) inside this box ☐

H 3888 PCT/US

DECLARATION				ADDITIONAL INVENTOR(S) Supplemental Sheet			
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name	Daniel	Middle Initial		Family Name	DUFAY	Suffix e.g. Jr.	
Inventor's Signature				Date	20/08/07		
Residence: City	Courtenay	State		Country	France	Citizenship	French FRX
Post Office Address	9, Route de Montargis						
Post Office Address							
City	45320 Courtenay	State		Zip		Country	France
						Applicant Authority	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name		Middle Initial		Family Name		Suffix e.g. Jr.	
Inventor's Signature				Date			
Residence: City		State		Country		Citizenship	
Post Office Address							
Post Office Address							
City	40789 Monheim	State		Zip		Country	Germany
						Applicant Authority	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name		Middle Initial		Family Name		Suffix e.g. Jr.	
Inventor's Signature				Date			
Residence: City		State		Country		Citizenship	
Post Office Address							
Post Office Address							
City		State		Zip		Country	
						Applicant Authority	
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name		Middle Initial		Family Name		Suffix e.g. Jr.	
Inventor's Signature				Date			
Residence: City		State		Country		Citizenship	
Post Office Address							
Post Office Address							
City		State		Zip		Country	
						Applicant Authority	
<input type="checkbox"/> Additional inventors are being named on supplemental sheet(s) attached hereto							